

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/011127

A. CLASSIFICATION OF SUBJECT MATTER
Int. Cl⁷ G11B7/0045, 7/125

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int. Cl⁷ G11B7/0045, 7/125

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | JP 2002-203317 A (TDK Corp.), 19 July, 2002 (19.07.02), Full text; Figs. 1 to 5 (Family: none) | 1-27 |
| A | JP 2002-245624 A (TDK Corp.), 30 August, 2002 (30.08.02), Full text; Figs. 1 to 5 & US 2004/0136305 A & EP 1369850 A1 & WO 02/065462 A1 & CN 1496561 A & TW 0224322 B | 1-27 |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

-A- document defining the general state of the art which is not considered to be of particular relevance
-E- earlier application or patent but published on or after the international filing date
-L- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
-O- document referring to an oral disclosure, use, exhibition or other means
-P- document published prior to the international filing date but later than the priority date claimed

-T- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
-X- document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
-Y- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
-&- document member of the same patent family

Date of the actual completion of the international search
13 September, 2005 (13.09.05)

Date of mailing of the international search report
27 September, 2005 (27.09.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The inventions of claims 1-4, 8-13, 15-20, 24-27 relate to configuration for performing control so that the recording power satisfies $(Pp1/Ppth1) < (Pp2/Ppth2)$ wherein Ppth1 is a threshold value at which the reproduction signal quality is lower than a predetermined value when a test signal is recorded with a first linear velocity v1 while fixing the erase power and changing the recording power; Ppth2 is a threshold value at which the reproduction signal quality is lower than a predetermined value when a test signal is recorded with a second linear velocity v2 which is higher than the first linear velocity v1 while fixing the erase power and changing the recording power;

(Continued to extra sheet)

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet(2)

Pp1 is a recording power when recording the information at the first linear velocity v1; and Pp2 is a recording power when recording the information at the second linear velocity v2.

The inventions of claims 5, 21 relate to configuration for performing control so that the recording power satisfies $(Pp1/Ppth1) < (Pp2/Ppth2)$ wherein Ppth1 is a threshold value at which the reproduction signal quality is lower than a predetermined value when a test signal is recorded with a first linear velocity v1 while changing each power so that the ratio of the erase power and the recording power is constant; Ppth2 is a threshold value at which the reproduction signal quality is lower than a predetermined value when a test signal is recorded with a second linear velocity v2 which is higher than the first linear velocity v1 while changing each power so that the ratio of the erase power and the recording power is constant; Pp1 is a recording power when recording the information at the first linear velocity v1; and Pp2 is a recording power when recording the information at the second linear velocity v2.

The inventions of claims 6, 14, 22 relate to configuration for performing control so that the recording power satisfies $a1 < a2$, wherein a1 is asymmetry of the reproduction signal when a test signal is recorded at a first linear velocity v1 while fixing the erase power and changing the recording power; and a2 is asymmetry of the reproduction signal when a test signal is recorded at a second linear velocity v2 which is higher than the first linear velocity v1 while fixing the erase power and changing the recording power.

The inventions of claims 7, 23 relate to configuration for performing control so that the recording power satisfies $a1 < a2$, wherein a1 is asymmetry of the reproduction signal when a test signal is recorded at a first linear velocity v1 while changing each power so that the ratio of the erase power and the recording power is constant; and a2 is asymmetry of the reproduction signal when a test signal is recorded at a second linear velocity v2 which is higher than the first linear velocity v1 while changing each power so that the ratio of the erase power and the recording power is constant.

These four groups of inventions are not so linked as to form a single general inventive concept.

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